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JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: 07050834 A

(43) Date of publication of application: 21.02.1995

(51) Int. Cl H04N 7/30  
G06T 9/00, H04L 29/08

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(54) RATE CONVERSION PICTURE CODER

(57) Abstract:

**PURPOSE:** To set a frame rate and a quantization step to a visually optimum value at a slow communication line speed by synthesizing plural frame picture data received from a communication line whose communication speed is fast to be one-frame data.

**CONSTITUTION:** A signal is quantized by a 1st quantization means 109 and outputted to a communication line at a slow speed as  $q(t(Xi+n-Xi)+Q'i+n)$ . Simultaneously data are inversely quantized by a 2nd inverse quantization means, subject to inverse orthogonal transformation by a 2nd inverse orthogonal transformation means 111, the result is added to prediction data up to an i-th frame at an adder means 112 and the result is stored in a 2nd picture memory 113 as prediction data up to  $(i+n)$ th frame. Similarly the content of a 3rd picture memory is subject to inverse orthogonal transformation by a 1st inverse orthogonal transformation means 118 via a selector 105, the result is added to prediction data up to the i-th frame at an adder means 119 and stored in the 1st picture memory 120 as prediction data up to the  $(i+n)$ th frame.

When only a prediction error of the  $(i+1)$ th frame is a motion compensation prediction error, motion compensation is applied to the picture memories 120, 113.

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